

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for producing calcium fluoride, said method comprising:

reacting ~~introducing~~ a fluoride-containing effluent that has a pH 3 or higher together with an aqueous calcium chloride solution in a reactor into a reaction system, wherein the reaction is ~~system being~~ maintained at pH 1.5 [[2]] or lower with hydrochloric acid to deposit calcium fluoride particles;

wherein the calcium fluoride particles have a purity of 98% or higher, and wherein an average particle size of the calcium fluoride particles is between 5 to 300 μm ;

then recovering said particles, [[and]]

wherein the step of reacting ~~introducing~~ is performed at room temperature or at a temperature between 30 to 90 °C and provides a produced or residual quantity of hydrochloric acid;

reacting the produced or residual quantity of hydrochloric acid with a calcium compound to produce an aqueous calcium chloride-containing liquid; and

reusing the aqueous calcium chloride-containing liquid in the aqueous calcium chloride solution in the step of reacting the fluoride-containing effluent.
2. (canceled)
3. (original) The method according to claim 1, wherein the fluoride-containing effluent and/or the aqueous calcium chloride solution contain hydrochloric acid, or an aqueous hydrochloric acid solution is separately introduced continuously or intermittently into the reaction system.
4. (canceled)

5. (canceled)
6. (canceled)
7. (previously presented) A method for producing calcium fluoride, said method comprising:

~~reacting introducing~~ an at least 2.2% hydrofluoric acid-containing effluent ~~together with~~ an aqueous calcium chloride solution in a reactor ~~into a reaction system, wherein~~ the reaction ~~is system being~~ maintained at pH 1.5 ~~[[2]]~~ or lower with hydrochloric acid, to deposit calcium fluoride particles;

wherein the calcium fluoride particles have a purity of 98% or higher, and wherein an average particle size of the calcium fluoride particles is between 5 to 300 μm ;

and then recovering said particles; ~~[[and]]~~

wherein the step of ~~reacting introducing~~ is performed at room temperature or at a temperature between 30 to 90 °C and provides a produced or residual quantity of hydrochloric acid;

reacting the produced or residual quantity of hydrochloric acid with a calcium compound to produce an aqueous calcium chloride-containing liquid; and

reusing the aqueous calcium chloride-containing liquid in the aqueous calcium chloride solution in the step of reacting the fluoride-containing effluent.

8. (canceled)
9. (previously presented) The method according to claim 7, wherein the hydrofluoric acid-containing effluent and/or the aqueous calcium chloride solution contain hydrochloric acid, or an aqueous hydrochloric acid solution is separately introduced continuously or intermittently into the reaction system.
10. (canceled)

11. (canceled)
12. (canceled)
13. (previously presented) A method for recycling calcium fluoride, characterized in that the calcium fluoride recovered by the method according to claim 1 or 7 is supplied as a raw material for producing hydrogen fluoride.